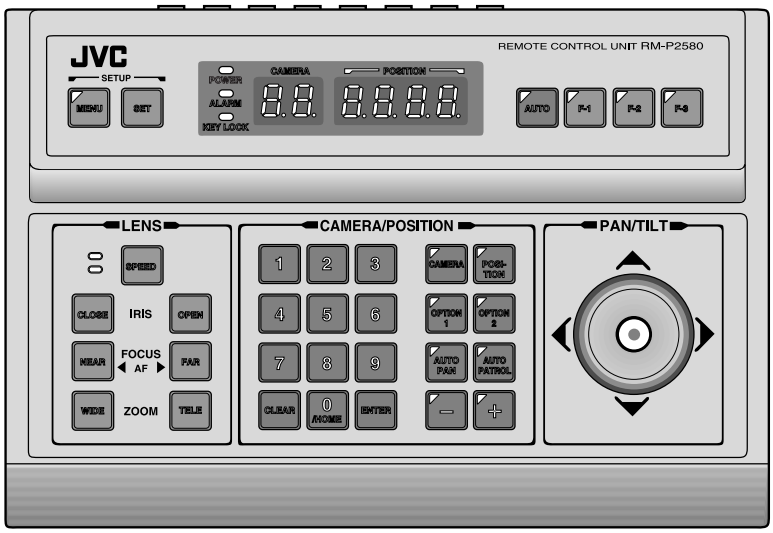
JVC®

INTRODUCTION
BASIC OPERATIONS
APPLIED OPERATIONS
CONNECTIONS
MENU SCREEN SETUPS
OTHER

REMOTE CONTROL UNIT

RM-P2580 INSTRUCTIONS



For Customer Use:
Enter below the Model No. and Serial No. which is located on the body. Retain this information for future reference.

Model No. RM-P2580

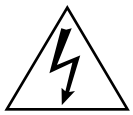
Serial No. _____

SAFETY PRECAUTIONS

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

AVERTISSEMENT :
POUR EVITER LES RISQUES D’INCENDIE OU D’ELECTROCUTION, NE PAS EXPOSER L’APPAREIL A L’HUMIDITE OU A LA PLUIE.

Information for USA
This device complies with Part 15 of the FCC Rules. Changes or modifications not approved by JVC could void the user's authority to operate the equipment.

INFORMATION (FOR CANADA)
RENSEIGNEMENT (POUR CANADA)

This Class B digital apparatus meets all requirements of the canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe B respecte toutes les exigences du Réglement sur le matériel brouilleur du Canada.

Changes or modifications not approved by JVC could void the user's authority to operate the equipment.

This unit is designed for professional use only.

Due to design modifications, data given in this instruction book are subject to possible change without prior notice.

1. INTRODUCTION

Thank you for purchasing the JVC RM-P2580.
These instructions are for the **RM-P2580U**.

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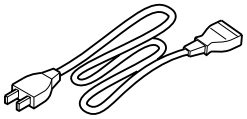
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FEATURES

- Presetting of up to 64 positions (including the home positions) each, for up to 8 combination cameras (TK-C675B).
- Built-in PAN, TILT and ZOOM control for up to 8 cameras.
- RS-485 connection system enables cascaded connection of cameras.
- Built-in sequential switcher.
- Alarm input terminals.
- Data I/O terminals for interlocked operation with external peripherals.

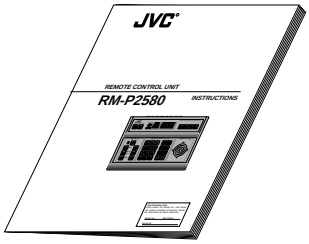
ACCESSORIES



Power cord (2 m)



Ferrite Core



Instructions (this manual)

PRECAUTIONS FOR PROPER OPERATION

- Do not install the unit in a place subject to direct sunlight, excessive moisture, dust, or vibrations where ventilation is poor.
- Be careful of strong radio waves and magnetism:

  If the unit is near a source of strong magnetism, such as a radio or TV transmission antenna, power transformer or motor, the video signal may be subject to interference.
- Always use the power cord provided with or specified for this unit.
- CLEAN EXTERIOR
  - Wipe gently with a soft cloth.
  - Put cloth in diluted mild soap and wring it well to wipe off heavy dirt. Then wipe again with a dry cloth.

Precautions for the PRESET SEQUENCE and AUTO PAN Operations

The life-span of the PRESET SEQUENCE and AUTO PAN functions is dependent on which camera model is used in combination with this unit.
When using a TK-C675B camera, the guaranteed zoom lens operation count is 200,000 times. If the zoom lens operation is used often, the life-span of the PRESET SEQUENCE and AUTO PAN functions may be much less than expected.

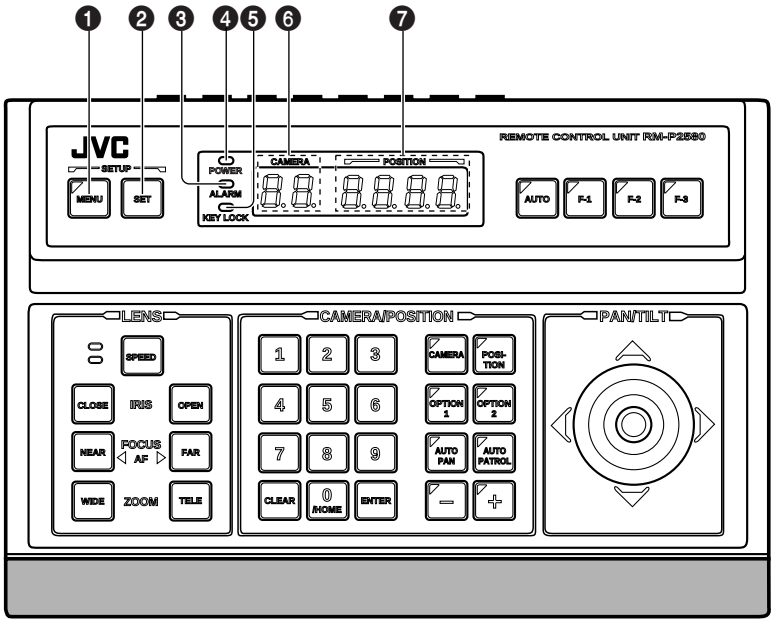
(Example) Assuming that a ZOOM operation is performed every minute and the camera is used 24 hours a day:

200,000 x 2 (times) ÷ 60 (minutes) ÷ 24 (hours) = 277 (days)
Total operations count — Daily operating hours

For other camera models, please refer to the Handling & Installation Instructions manuals of the camera in use.

CONTROLS, CONNECTORS AND INDICATORS

[Control Panel]



❶ [MENU] button (with an indicator)

When this button is pressed, the MONITOR OUTPUT 1 ㉚ on the rear panel outputs a menu screen and the indicator with this button lights up.

REF. : "MENU SCREEN SETUP" on page 25.

❷ [SET] button

- While a normal screen is displayed (i.e. when a menu screen is not displayed), pressing and holding this button for more than 3 seconds generates a short beep, lights up the KEY LOCK indicator ❺ and then puts the unit to the KEY LOCK status.
  In the KEY LOCK status, all buttons as well as the PAN/TILT control lever ⑬ on the control panel are inactive.
  To release the KEY LOCK status, press and hold the SET button again for more than 3 seconds.
- While a menu screen is displayed, this button is used to display a menu in a lower hierarchy level or to enter a setting.

REF. : "MENU SCREEN SETUP" on page 25.

❸ [ALARM] indicator

This indicator blinks when an alarm signal is input.

REF. : "ALARM OPERATION" on page 17.

❹ [POWER] indicator

This indicator lights up when the POWER switch ㉕ on the rear panel is set to ON.

❺ [KEY LOCK] indicator

This indicator lights up when the unit is in the KEY LOCK status.

REF. : "❷ [SET] button" for the KEY LOCK status setting.

❻ [CAMERA] display

Shows the camera number of the camera signals output from the MONITOR OUTPUT 1 connector ㉚.

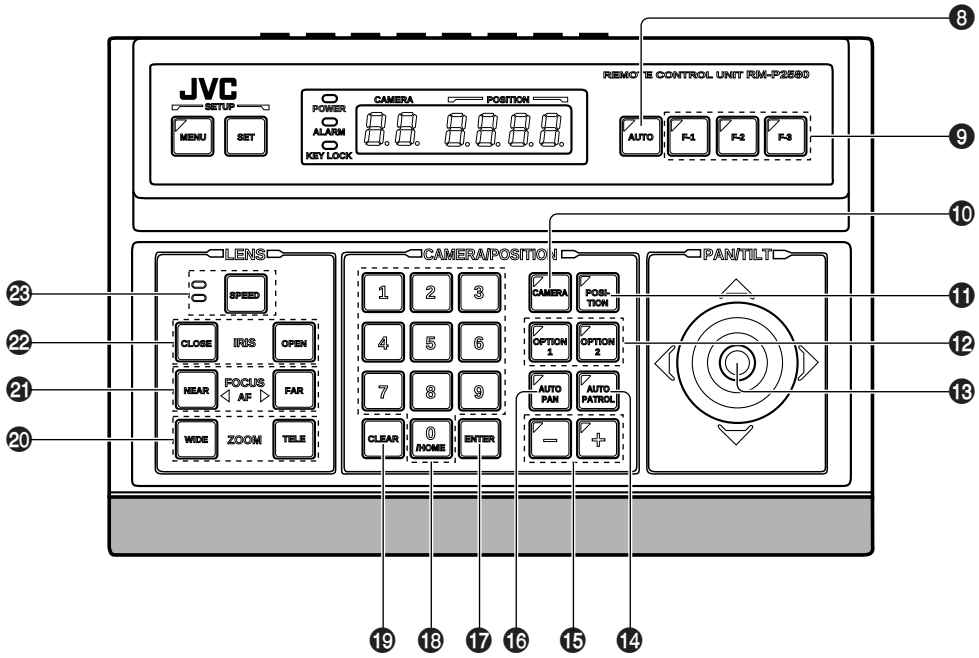
REF. : "CAMERA SELECTION" on page 10.

❼ [POSITION] display

Shows the position number of the camera signals output from the MONITOR OUTPUT 1 connector ㉚.

REF. : "POSITION SELECTION" on page 11.

CONTROLS, CONNECTORS AND INDICATORS (Continued)



❽ [AUTO] button

When this button is pressed, the unit enters the AUTO SEQUENCE mode, in which the indicator lights up and the MONITOR OUTPUT 1 connector ㉚ on the rear panel output the camera video signals according to automatic switching.

REF. : "AUTO SEQUENCE OPERATION" on page 13.

❾ [F1, F2, F3] Function buttons

These buttons are valid only when SW-D7000/SW-D8000 frame switchers are being used.

When this unit is operated in the B mode, these buttons can control certain functions of the specific frame switcher model connected to this unit. The RS-232C control is involved in this control operation.

For details, please consult your dealer or JVC-authorized service agent.

REF. : "APPLIED SYSTEM (B MODE)" on page 22.

F1: Single-screen select switch

Press this button to output a single-screen video from the frame switcher.

The camera number can be selected using the numeric keypad, etc.

F2: Split-screen select switch

Press this button to output a split-screen video from the frame switcher.

F3: LIVE/PLAY switch

Press this button to switch between the playback video of a time-lapse VCR and the camera video.

❿ [CAMERA] button

Press when selecting a camera.

To select a camera, use the following buttons:

CAMERA button ❿ → Numeric key buttons ⓲ → ENTER button ⓱.

REF. : "CAMERA SELECTION" on page 10.

⓫ [POSITION] button

Press when selecting one of the position numbers preset for the camera.

To select a position, use the following buttons:

POSITION button ⓫ → Numeric key buttons ⓲ → ENTER button ⓱.

REF. : "POSITION SELECTION" on page 11.

⓬ [OPTION 1, 2]

These buttons are not used for the present. Do not touch them.

⓭ [PAN/TILT] control lever

Operate the lever to pan (swing horizontally) or tilt (swing vertically) the rotary turret of a camera.

▲(Up) : Tilt the lever in this direction to tilt the rotary turret upward.

▼(Down) : Tilt the lever in this direction to tilt the rotary turret downward.

◄(Right) : Tilt the lever in this direction to pan the rotary turret toward the right.

►(Left) : Tilt the lever in this direction to pan the rotary turret toward the left.

REF. : "MANUAL OPERATION" on page 12.

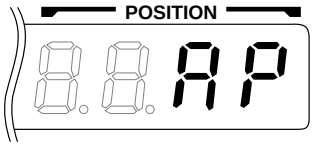
While a menu screen is displayed, this lever is used to select or to set an item.

REF. : "MENU OPERATION METHOD" on page 26.

CONTROLS, CONNECTORS AND INDICATORS (Continued)

⓮ [AUTO PATROL] button

Press this button to switch the camera positions automatically in a preset order and at preset time intervals.



The POSITION display becomes as shown on the left during AUTO PATROL.

The AUTO PATROL function can be set on a per-camera basis.

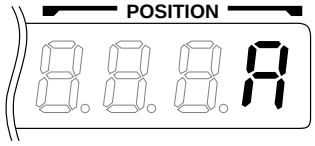
REF. : "AUTO PATROL OPERATION" on page 15.

⓯ [–, +] Negative and positive buttons

Press button to decrease or increase the camera or position number.

⓰ [AUTO PAN] button

Press this button to rotate or swing a camera between preset positions at a preset time interval.



The POSITION display becomes as shown on the left during AUTO PAN.

REF. : "AUTO PAN OPERATION" on page 14.

⓱ [ENTER] button

Press to enter a figure input using the numeric key buttons ⓲.

⓲ [1 to 0/HOME] Numeric key buttons

Use these buttons to choose a camera or position number.

⓳ [CLEAR] button

Press to clear an input figure before it is entered by pressing the ENTER button.

⓴ [ZOOM WIDE, TELE] ZOOM control buttons

Press and hold to control the ZOOM operation of the camera lens.

WIDE: Zooms out and widens the image.

TELE: Zooms in and narrows the image.

㉑ [FOCUS NEAR, FAR] FOCUS control buttons

- Press and hold to control the FOCUS operation of the camera lens.

  NEAR: Brings a near object in focus.

  FAR : Brings a distant object in focus.
- AF (AUTO FOCUS)

  When the NEAR and FAR buttons are simultaneously pressed and held for about 1 second, a short beep is generated and the object is automatically brought into focus.

NOTE

If the camera being selected does not incorporate the AUTO FOCUS function, this function is not available even when the short beep is generated. Be sure to use this function while observing the monitor screen.

㉒ [IRIS CLOSE, OPEN] Iris control button.

Press and hold to control the lens iris.

CLOSE : Closes the lens iris.

OPEN : Opens the lens iris.

㉓ [SPEED] Speed button and indicators

Press to set the speed of the ZOOM and FOCUS control operations.



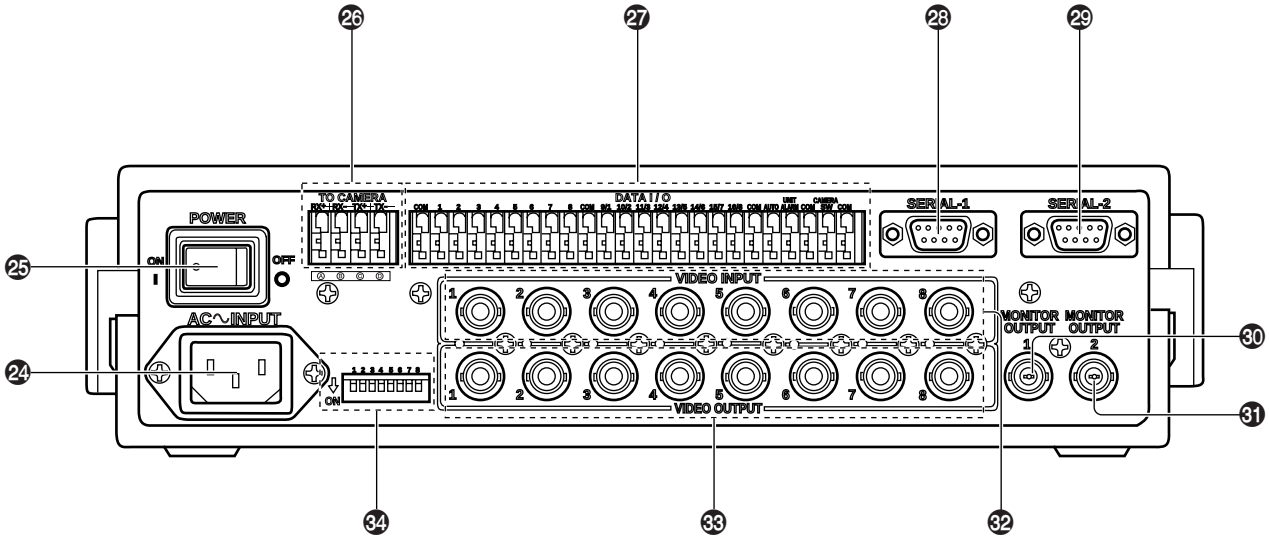
Each press of the button changes the operation speed.

NOTE

When the power is turned on, the operation speed is medium.

CONTROLS, CONNECTORS AND INDICATORS (Continued)

[Rear Panel]



㉔ [AC∿INPUT] AC power input connector

Connect to a conventional 120 V AC power supply using the provided power cord.

㉕ [POWER] switch

Turns the power of the unit ON and OFF. When this switch is set to ON, the POWER indicator ❹ on the front panel lights up.

㉖ [TO CAMERA] Camera control signal connectors

Connection terminals for use in controlling the cameras.
The control communications use the multi-drop, full-duplex communication system (RS-485).

REF. :"REAR PANEL CONNECTORS (TO CAMERA)" on page 23.

㉗ [DATA I/O] Data signal input/output terminals

Connection terminals for use by the alarm input/output and select output signals.
Connect the CAMERA SW terminal to a time-lapse VCR.

REF. : "REAR PANEL CONNECTORS (DATA I/O)" on page 24.

㉘ [SERIAL-1] External extension connector 1 (D-sub 9-pin male connector)

Use this connector when connecting an external component such as an alarm unit.

REF. :"REAR PANEL CONNECTORS (SERIAL-1, -2)" on page 23.
Contact your JVC sales agent for details.

㉙ [SERIAL-2] External extension connector 2 (D-sub 9-pin male connector)

Use this connector when controlling a frame switcher (SW-D7000/SW-D8000).

REF. :"REAR PANEL CONNECTORS (SERIAL-1, -2)" on page 23.

㉚ [MONITOR OUTPUT 1] Video signal output connector 1

Outputs the video signal selected with this unit.
Connect to the video monitor, etc.
This connector also outputs the video signal, which carries the on screen menu.

㉛ [MONITOR OUTPUT 2] Video signal output connector 2

Connect to a time-lapse VCR, etc.
The camera video signal output from this connector is switched according to the switching signal input at the CAMERA SW IN terminal ㉗.
When this unit is operated in the B mode (REF. : Page 21): This connector outputs the same signal as the MONITOR OUTPUT 1 connector ㉚.

㉜ [VIDEO INPUT] Video signal input connectors

These connectors input the video signals from the cameras.
When this unit is operated in the B mode, apply the output signal from a frame switcher to the VIDEO INPUT 1 connector.

REF. :"BASIC SYSTEM" on page 19, "APPLIED SYSTEM" on page 21.

㉝ [VIDEO OUTPUT] Video signal output connectors

Each of these connectors outputs the video signal corresponding to the VIDEO INPUT connector ㉜ above it.
Connect these connectors to a video device such as a monitor.

㉞ DIP switch

Used to switch the system mode or the standard applied to the SERIAL-1 and -2 connectors.

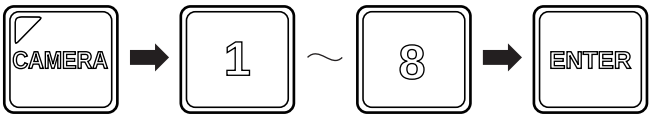
REF. :"REAR PANEL CONNECTORS (DIP SWITCH)" on page 23.

2. BASIC OPERATIONS

Manual Operation

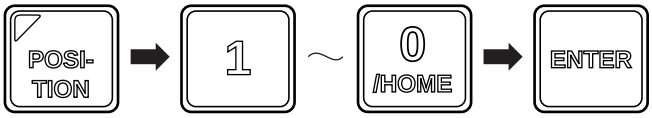
Camera Selection (REF. :Page 10)

Switching to the selected camera video.

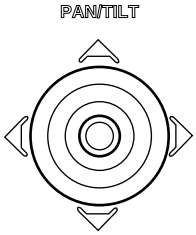


Position Selection (REF. : Page 11)

Switching the camera to the selected video position.

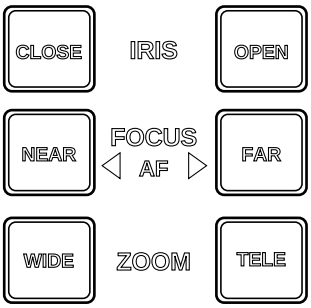


Pan/Tilt Operation (REF. : Page 12)



(TILT) Tilts the camera up and down, (PAN) Pans the camera in the left and right directions.

Lens Operation (REF. : Page 12)

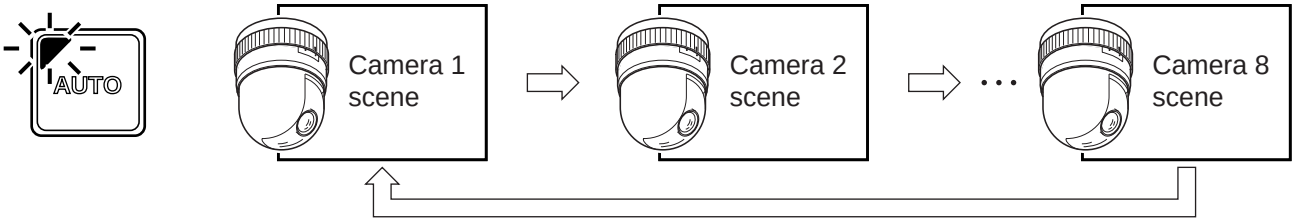


Operation of the Camera IRIS (Brightness), FOCUS (focusing) and ZOOM (screen size).

Automatic Operation

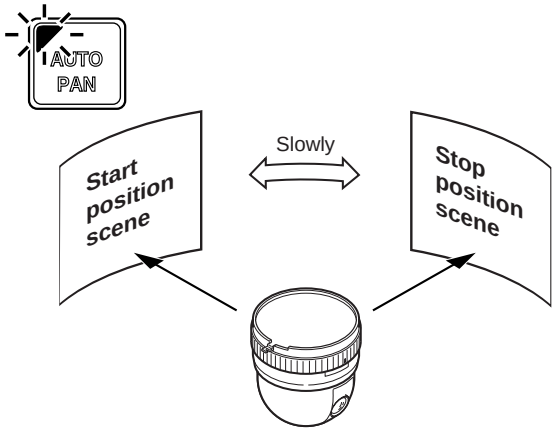
Auto Sequence (REF. : Page 13)

The scene captured by cameras 1 to 8 is automatically switched in a preset time interval.



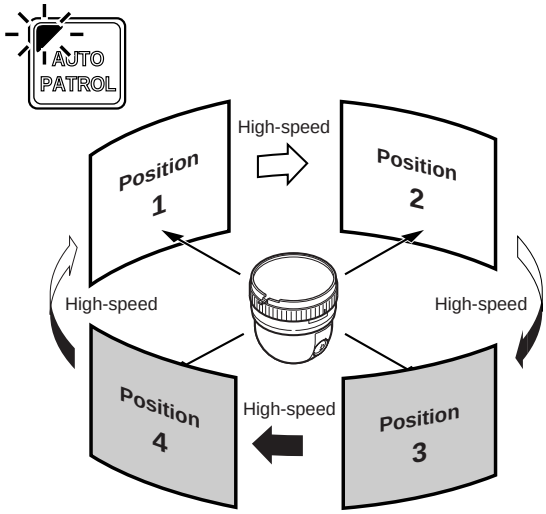
Auto Panning (REF. : Page 14)

The camera moves automatically and slowly between 2 points in a horizontal direction.



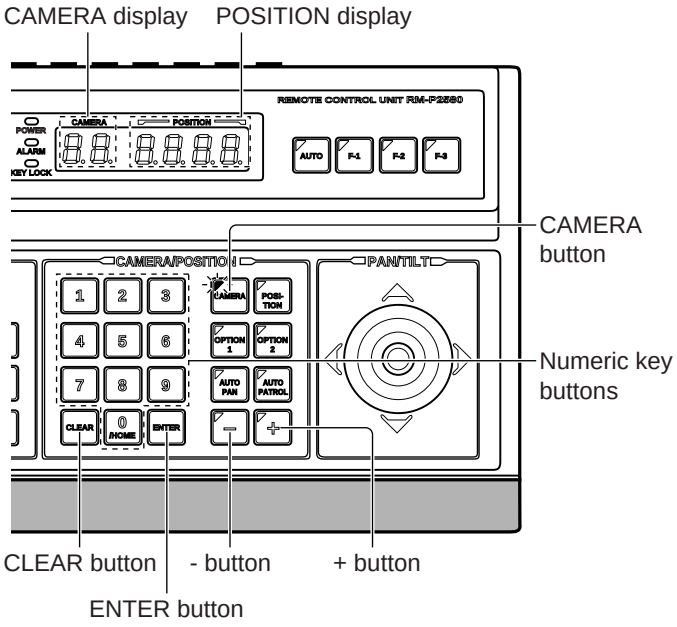
Auto Patrol (REF. : Page 15)

Moves the camera through many positions in a high-speed manner.



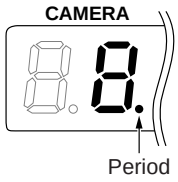
CAMERA SELECTION

Selecting a Desired Camera



1. Press the CAMERA button so that the indicator lights up.

2. Input the camera number using the numeric keys (0 to 9).
The input figure is shown in the CAMERA display together with a period after it. (Example: When "8" is input)
To clear the input figure, press the CLEAR button.



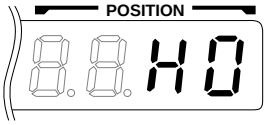
3. Press the ENTER button to enter the input camera number. The video of the selected camera will be output from the MONITOR OUTPUT connectors on the rear panel.
At this time, the period in the CAMERA display disappears and the POSITION display shows the camera operation details (position, fixed camera, AUTO PATROL, AUTO PAN, etc.).

NOTES
- "Camera video" is one of the video signals input to the VIDEO INPUT connector of this unit or to the frame switcher.
- In the case of the B mode in which the output video is controlled by the frame switcher, in order to allow camera selection from this unit, connect the SERIAL-2 connector on the rear panel of the unit with the RS-232C connector of the frame switcher. (SW-D7000/SW-D8000)(REF. : "APPLIED SYSTEM (B MODE)" on page 22.)

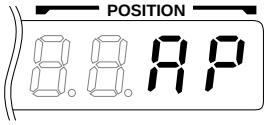
4. To view the video of the next camera number, press the + button. To view the video of the previous camera number, press the – button.

NOTES
- When no camera is connected to a camera number, the camera number is skipped.
- Be sure to set each camera ID to the same number as the corresponding VIDEO INPUT connector. Erroneous settings may cause operational difficulties.

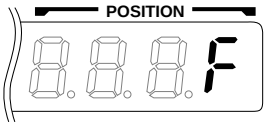
Camera operation details



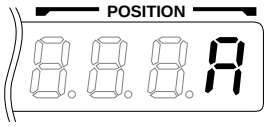
Position display (Example with the home position)



AUTO PATROL (REF. : Page 15)



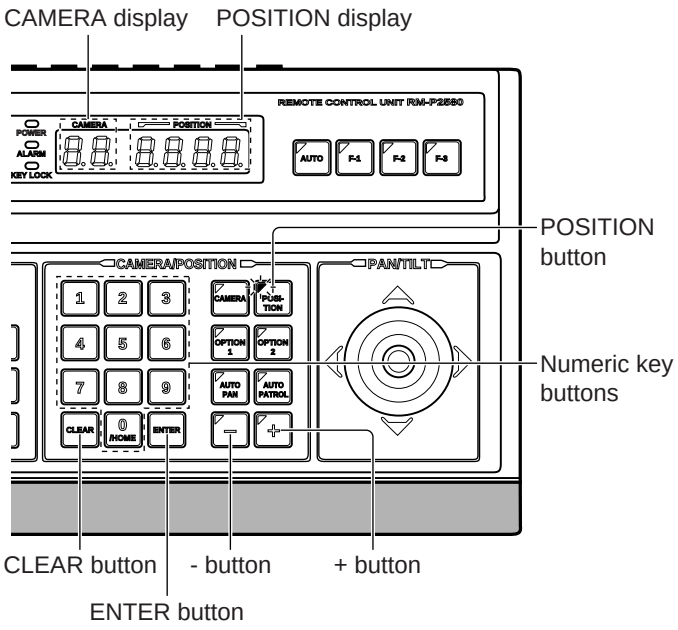
Fixed camera display



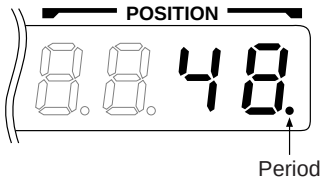
AUTO PAN (REF. : Page 14)

POSITION SELECTION

Selecting a Desired Preset Position (REF. : Page 27 for the position presetting.)



1. Press the POSITION button so that the indicator lights up.
2. Input the position number using the numeric keys (0 to 9). The input figure is shown in the POSITION display together with a period after it.
   (Example: When “48” is input)
   To clear the input figure, press the CLEAR button.



3. Press the ENTER button to enter the input position number. The video of the selected position will be output from the MONITOR OUTPUT connectors on the rear panel.
   At this time, the period in the POSITION display disappears.

NOTE

When a position number that has not been preset is selected, the POSITION display shows the selected position number but the video is not switched to that position.

4. To view the video of the next recorded position number, press the + button. To view the video of the previous recorded position number, press the – button.

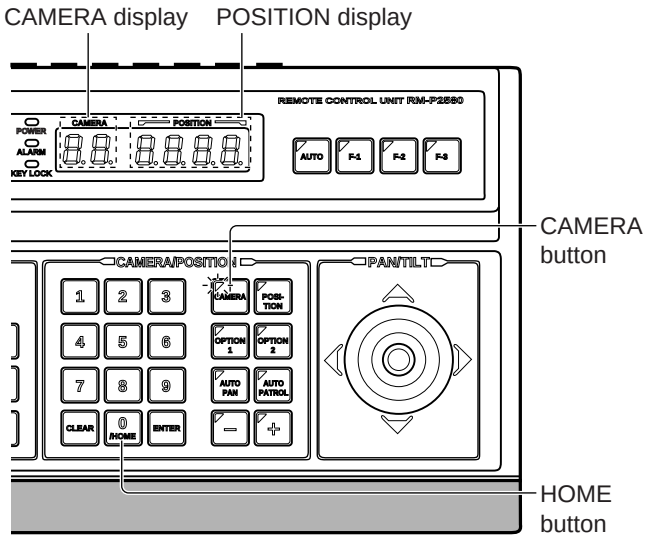
NOTE

When TK-C675B cameras are used, make sure that the lower 4 digits inscribed on the serial number on their rear panels are as shown below. Otherwise the cameras cannot be moved to the desired positions.

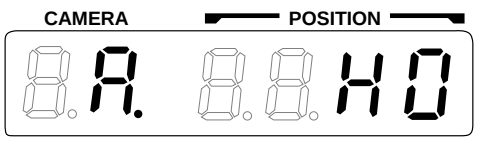
TK-C675BU: #0060 or after

When the serial number of a camera is other than the above, please consult your nearest JVC-authorized service agent.

Setting All Cameras to the Home Positions (REF. : Page 27 for the home position presetting.)



1. Press the CAMERA button so that the indicator lights up.
2. Press the HOME button. The CAMERA display shows “A” and POSITION display shows “HO”.

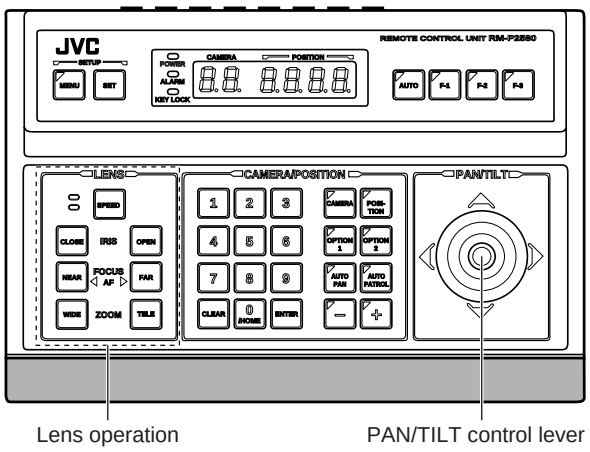


3. Press the ENTER button to move all the cameras into their home positions.

   When the cameras have moved to the home positions, the CAMERA display shows the camera number that was selected before the HOME button was pressed.

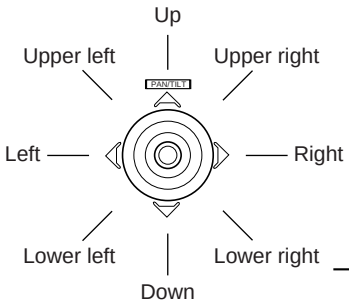
MANUAL OPERATION

The manual operation allows you to PAN or TILT the selected camera and to control its lens.

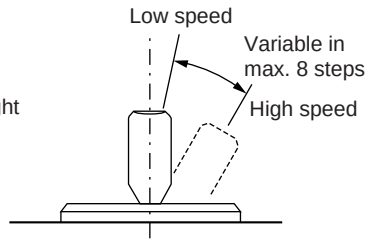


NOTES
- Manual operation is not available in the AUTO SEQUENCE or AUTO PATROL modes.
- Only the lever tilting operation is available in the AUTO PAN mode.

Operating the PAN/TILT Control Lever



Operation method

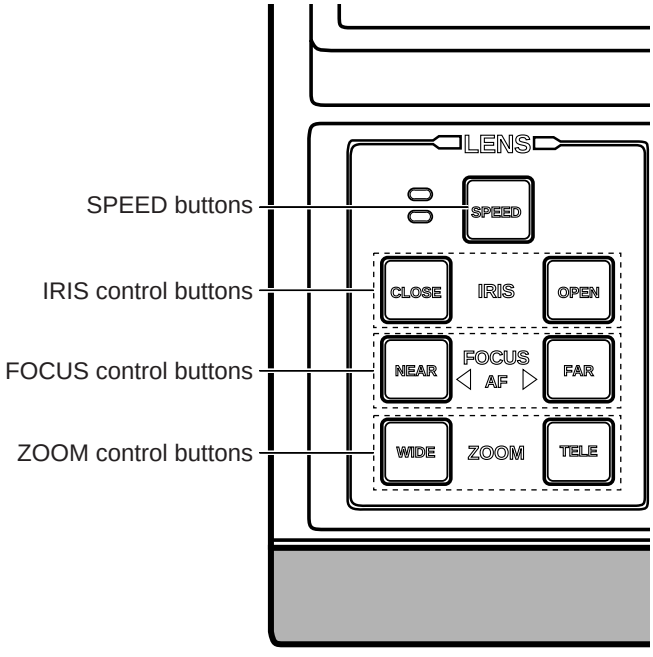


Speed

- The rotary turret of the camera rotates according to the direction in which the PAN/TILT lever is tilted.
- The speed of rotation depends on the angle of tilt of the control lever. The greater the tilt, the faster the speed. The speed at each step value can be changed according to the tilt angle.

REF. : "P/T SPEED" on page 29 for how to change the lever sensitivity.

Operating the Lens



- **IRIS**
  To adjust the video image brightness, press and hold one of the IRIS control buttons until the desired brightness is obtained.
  CLOSE : Closes the lens iris.
  OPEN : Opens the lens iris.
  The iris operation continues as long as the button is being pressed.
- **FOCUS**
  To adjust the focus, press and hold one of the FOCUS control buttons until the desired focus is obtained.
  NEAR : Brings a near object into focus.
  FAR : Brings a far object into focus.
  The focus operation continues for as long as the button is being pressed.
- **ZOOM**
  To adjust the video image size, press and hold one of the ZOOM control buttons until the desired size is obtained.
  WIDE: Zooms out and widens the image.
  TELE: Zooms in and narrows the image.
  The zoom operation continues for as long as the button is being pressed.

The movement speeds of zoom and focus are variable with SPEED button.

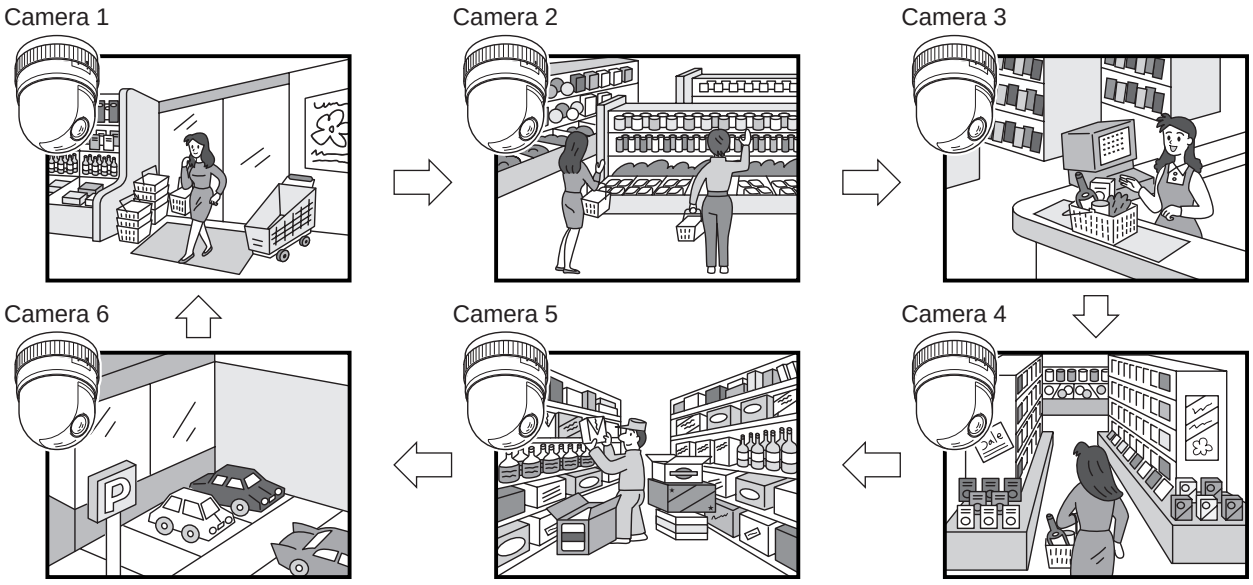
REF. : "SPEED button" on the page 7.

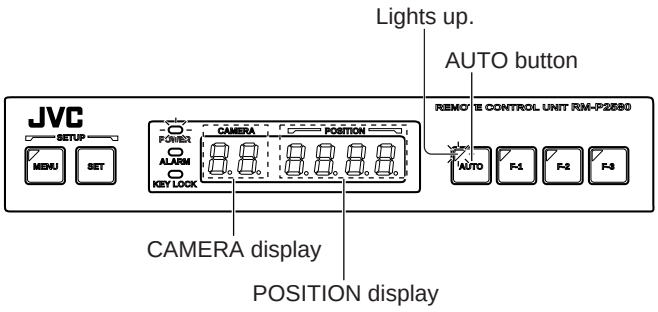
AUTO SEQUENCE OPERATION

Operation with the Basic System (REF. : Page 32 for the switching interval setting.)

When the AUTO button is pressed, the AUTO indicator lights up and the MONITOR OUTPUT connectors output the camera images, switching them in order of camera numbers at constant intervals.

(Example) When using cameras 1 to 6





1. Press the AUTO button.
The LED indicator lights up and the AUTO SEQUENCE operation starts.
The CAMERA display shows the camera number of the video being output from the MONITOR OUTPUT 1 connector.
The POSITION display shows the camera operation details. (REF. : Page 10)

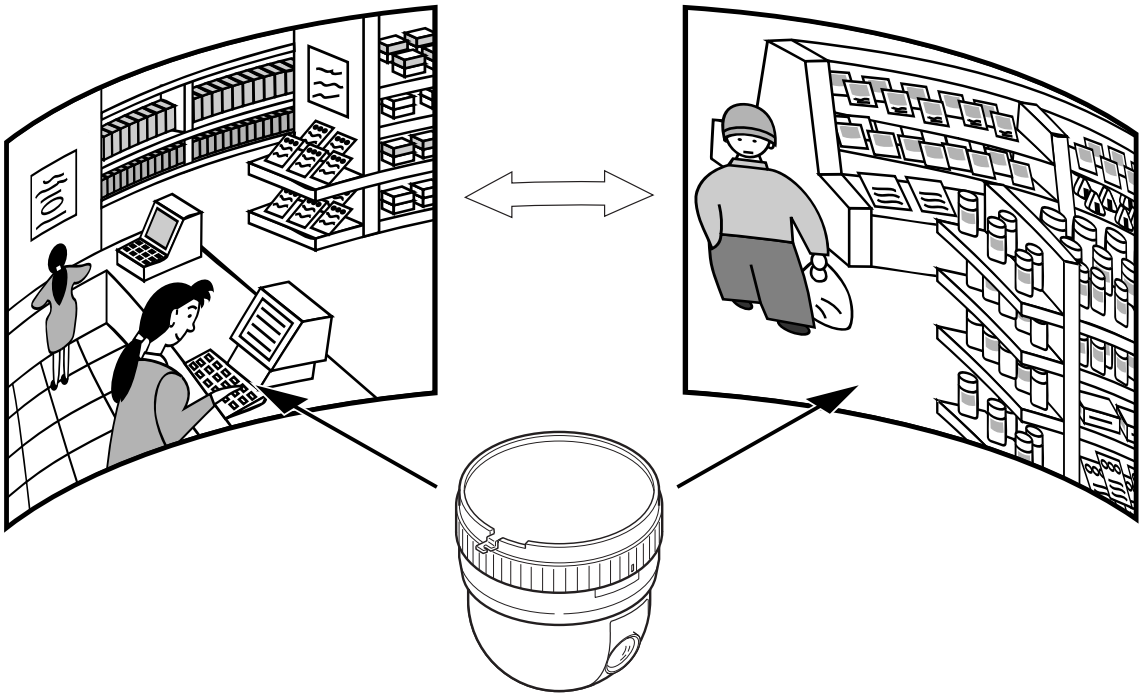
NOTES

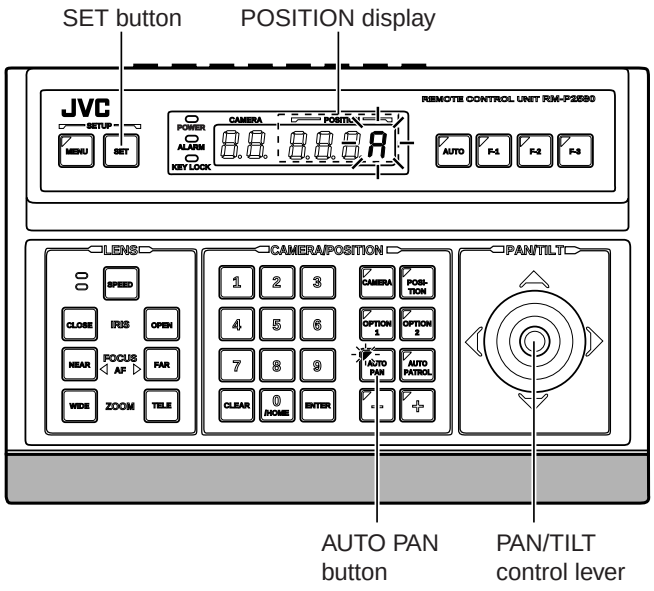
- During the AUTO SEQUENCE operation, the camera selection, manual selection, AUTO PAN operation and AUTO PATROL operation are not available.
- When the auto mode AUTO SEQUENCE operation is switched from ON to OFF, the MONITOR OUTPUT connectors output the video at the moment of the ON-OFF switching.
- In the case of Applied System (B Mode), the video from the MONITOR OUTPUT is displayed in either auto sequence or in multi-split screen depending on the setting of the connected frame switcher.

2. To stop the AUTO SEQUENCE operation, press the AUTO button once again.

AUTO PAN OPERATION

The AUTO PAN operation consists of low-speed horizontal movement of a camera between preset positions at a constant time interval.
Automatic panning is set between 2 points.
This function can be set on individual cameras.





1. Press the AUTO PAN button. The LED indicator lights up and the AUTO PAN operation starts.
The POSITION display shows "A" at this time.

NOTE

During the AUTO PAN operation, the PAN/TILT control lever can be operated only in the TILT direction (↕).

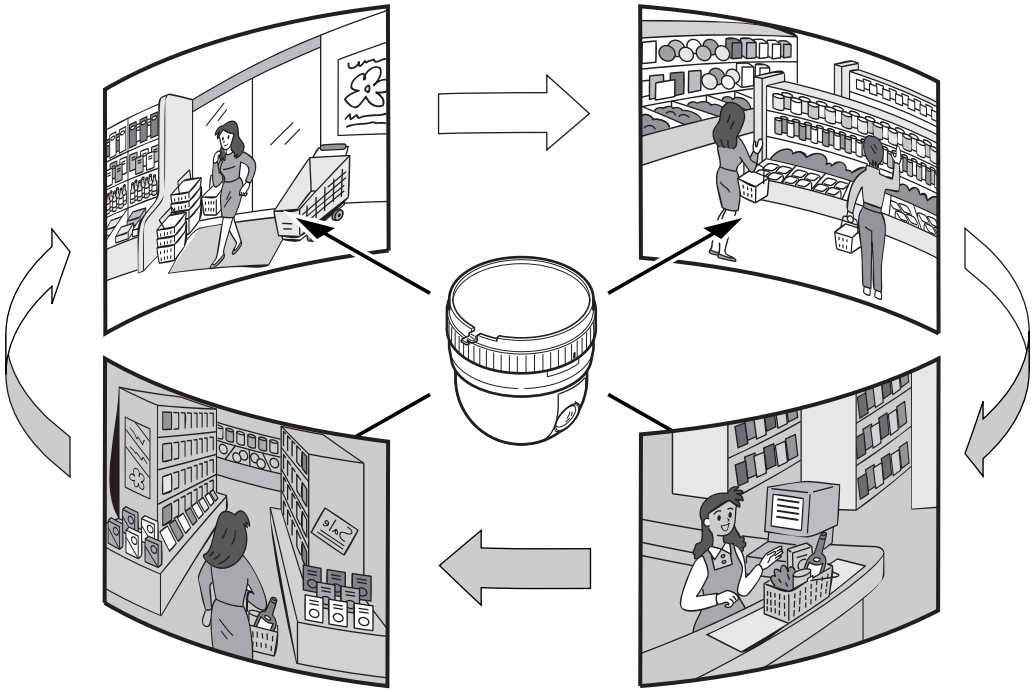
2. To stop the AUTO PAN operation, press the AUTO PAN button again.

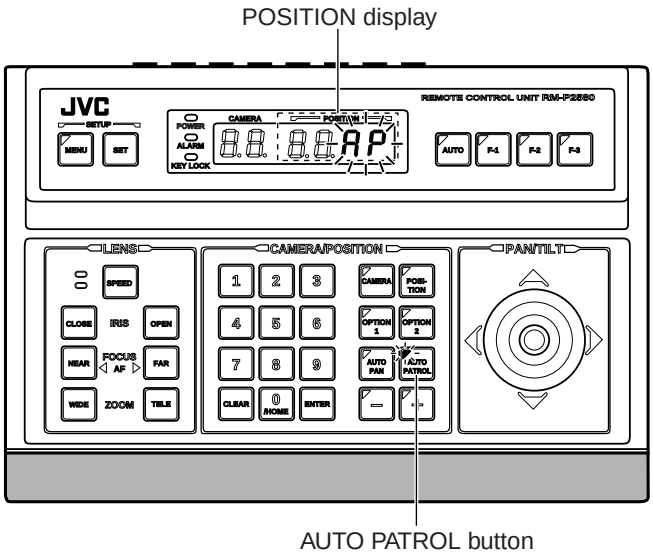
NOTES

- The AUTO PAN operation also stops when a preset position is selected or the AUTO PATROL operation is started.
  REF. : "POSITION SELECTION" on Page 11 and "AUTO PATROL OPERATION" on page 15.
- The AUTO PAN operation is set on the CAMERA SCREEN (REF. : Page 28). Open the camera menu screen to perform the setting.
  As the rest of the setting procedure is variable depending on the camera models, please refer to the Instruction manual of the connected camera.

AUTO PATROL OPERATION

The AUTO PATROL operation consists of high-speed camera movement between multiple pre-set positions, in a sequence and at time intervals set by the user.
This function can be set on individual cameras.





1. Press the AUTO PATROL button. The LED indicator lights up and the AUTO PATROL operation starts.
The POSITION display shows "AP" at this time.

NOTE

During the AUTO PATROL operation, the manual operation is not available.

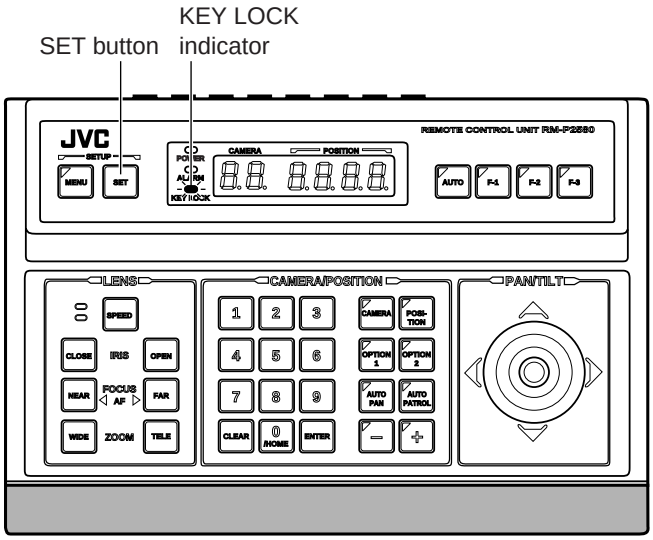
2. To stop the AUTO PATROL operation, press the AUTO PATROL button again.

NOTES

- The AUTO PATROL operation also stops when a pre-set position is selected or the AUTO PAN operation is started.
  REF. : [POSITION SELECTION] on Page 11 and [AUTO PAN OPERATION] on page 14.
- The AUTO PAN operation is set on the CAMERA SCREEN (REF. : Page 28). Open the camera menu screen to perform the setting.
  As the rest of the setting procedure is variable depending on the camera models, please refer to the instruction manual of the connected cameras.

KEY LOCK (PREVENTION OF OPERATION MISTAKE)

The KEY LOCK function helps prevent operational mistakes by inhibiting the functions of all the buttons and the joystick on the control panel.



1. Press and hold the SET button for more than 3 seconds to put the unit into KEY LOCK status. The KEY LOCK indicator lights up, and all the buttons and the joystick on the control panel become inactive.

2. To cancel KEY LOCK, press and hold the SET button for 3 seconds or more, again.
The KEY LOCK indicator goes off and the KEY LOCK status is cancelled.

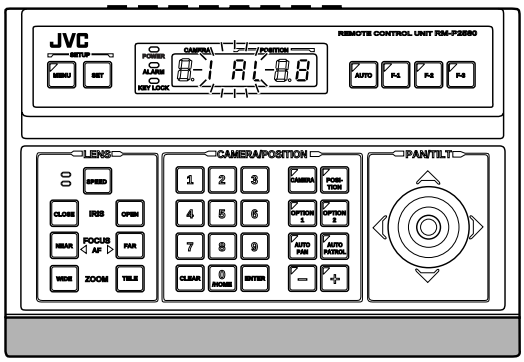
NOTE

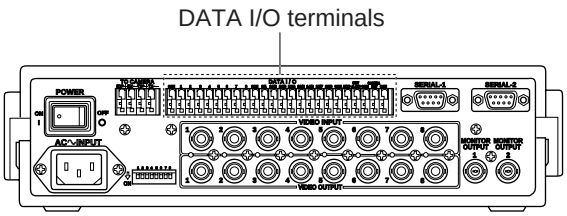
- Even if the power is turned OFF, the KEY LOCK status remains on.

3. APPLIED OPERATIONS

ALARM OPERATION

Alarm input signals can be applied to the DATA I/O terminals on the rear panel. The unit functions in either the ALARM PRIORITY mode or the MANUAL PRIORITY mode when an alarm signal is input. (REF. : "CONTROL UNIT SCREEN" on page 28 and "PRIORITY item of ALARM SCREEN" on page 32.)





Alarm Operation Modes

When an alarm signal is received, this unit performs the following operations.

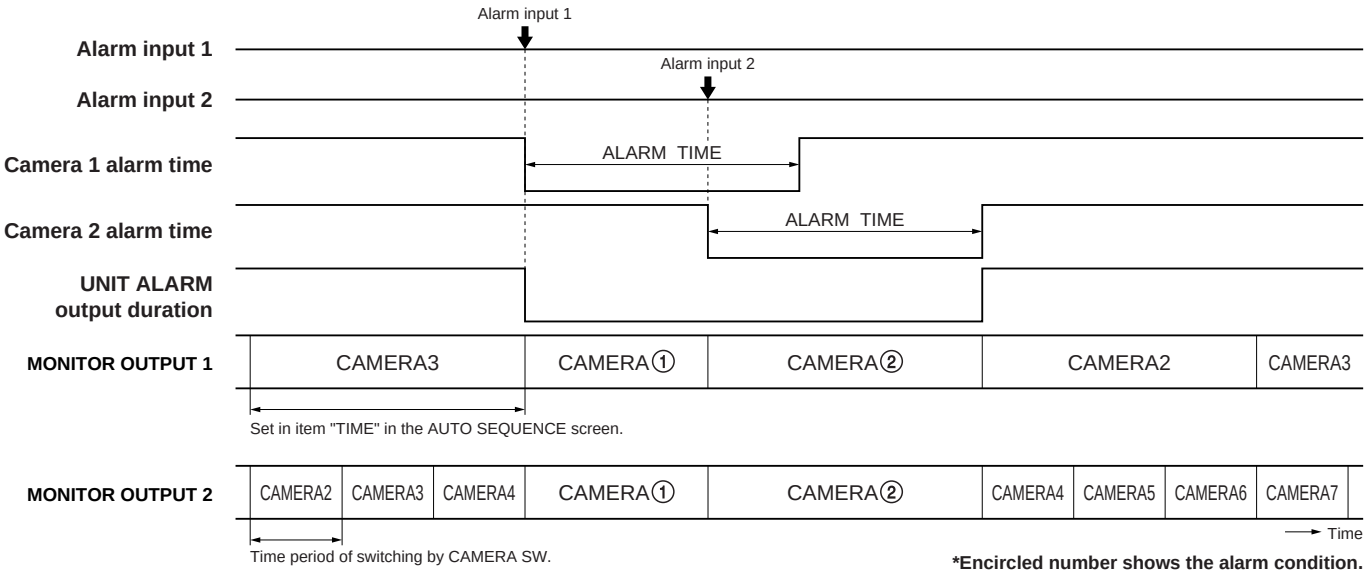
<Alarm priority mode>

- The video is switched to the camera position from which the alarm signal is received.
- An alarm signal will automatically override and cancel the operation of either AUTO PATROL or AUTO SEQUENCE. (AUTO SEQUENCE: In A mode only.)
- The preset alarm title is displayed in the preset size.
- The ALARM indicator blinks and the buzzer sounds. (REF. : "BUZZER TIME" on page 32 for the setting method.)
- The CAMERA display indicates the number ID of the camera which has given the alarm signal.
- The UNIT ALARM output is turned ON.

<Manual priority mode>

- When an alarm signal is received during manual operation (except during the AUTO PAN, AUTO PATROL and AUTO SEQUENCE operations), the alarm operation does not start.
- When an alarm signal is received from a camera other than the camera being controlled manually, the alarm operation starts but, unlike in the alarm priority mode, the buzzer does not sound and the camera in question is not automatically selected.

<Example when Alarm 1 and Alarm 2 are input during AUTO SEQUENCE in the A Mode>



***Encircled number shows the alarm condition.**

- In B mode, the MONITOR OUTPUT 2 connector outputs the same video as the MONITOR OUTPUT 1 connector.
  For B Mode connection. REF. : [Applied System (B Mode)] on page 21.
  B Mode output signal REF. : [B Mode] on page 22.
- While the MENU screen is displayed, the alarm signal is not accepted.

ALARM OPERATION (Continued)

Clearing the alarm

The alarm operation can be cleared in two ways:

<The alarm operation stops automatically when specified time has elapsed>

When the time period specified in the ALARM TIME item in the ALARM screen has elapsed, the alarm operation stops automatically.

- The ALARM indicator turns off.
- The buzzer sound stops.
- The AUTO SEQUENCE mode returns to its situation before the alarm input. (A mode only)
- The camera which received the alarm signal returns to its setting before the alarm input. (AUTO PAN, AUTO PATROL or home position)
- The alarm title display clears.
- The UNIT ALARM maintains the MAKE position until the alarm conditions for all the cameras have been cleared.

To set the alarm time REF. : [CONTROL UNIT SCREEN] on page 28 and [ALARM SCREEN : ALARM TIME] on page 32.

NOTE

When the ALARM TIME is set to SERIES, the alarm condition continues until the preset position, of the camera to which the alarm signal was input, is selected.

<Stopping the alarm operation manually>

When the alarm signal is received by the camera currently being selected, the alarm operation can be stopped by pressing the ENTER button. If the alarm signal is received by different camera, select that camera and press the ENTER button to stop the alarm operation.

- The ALARM indicator turns off.
- The buzzer sound stops.
- The alarm title display clears.
- The UNIT ALARM maintains the MAKE position until the alarm conditions for all the cameras have been cleared.

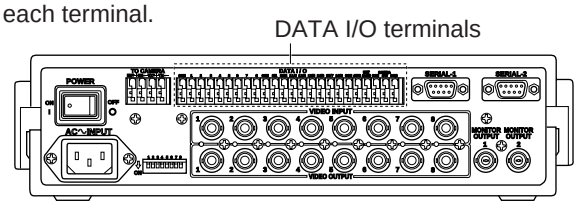
DATA OUTPUT

Three terminals, AUTO, UNIT ALARM and SELECT OUT / ALARM are provided at the Data Output terminal.

- AUTO terminal
  Signals are output when the AUTO SEQUENCE starts.
- UNIT ALARM terminal
  Signals are continuously output during an ALARM occurrence.
- SELECT OUT / ALARM terminal
  When a particular camera or camera position is selected by using a combination of the numeric keypad and the CAMERA, POSITION buttons, the corresponding command signal is output via one of the DATA I/O terminals on the rear panel.

REF. : See “DATA I/O SCREEN” on page 30, 31 for the assignment of each terminal.

For details of signal types to be output from each terminal;
REF. : Page 20 for the A Mode, and page 22 for the B Mode.



CAMERA SWITCHING OPERATION

By means of a CAM SW signal from a Time Lapse VCR which is connected to the CAMERA SW terminals, the video signal from MONITOR OUTPUT 2 can be selected to feed the Time Lapse VCR.

- When switching the video signal with the CAM SW, be sure to set the CAMERA SELECTION item to ENABLE. Otherwise the video signal will not be switched correctly.
  REF. : “OPTION SCREEN: CAMERA SELECTION” on page 29.
- Setting alterations are necessary according to which time-lapse VCR is connected.
  REF. : “CONTROL UNIT SCREEN” on page 28 and “DATA I/O screen: CAM SWITCH Item” on page 30
  Set the CAM SWITCH to LOW when a time-lapse VCR of JVC is connected.

NOTE

To switch the Alarm signal correctly by the CAM SW signal, set it in the following manner:

- Make sure that video signals are input to VIDEO INPUT 1.
- Make sure that the recording hours for the time-lapse VCR are set for 24 hours or more.
- Make sure the CAMERA SELECTION item is set to ENABLE for VIDEO INPUT 1.

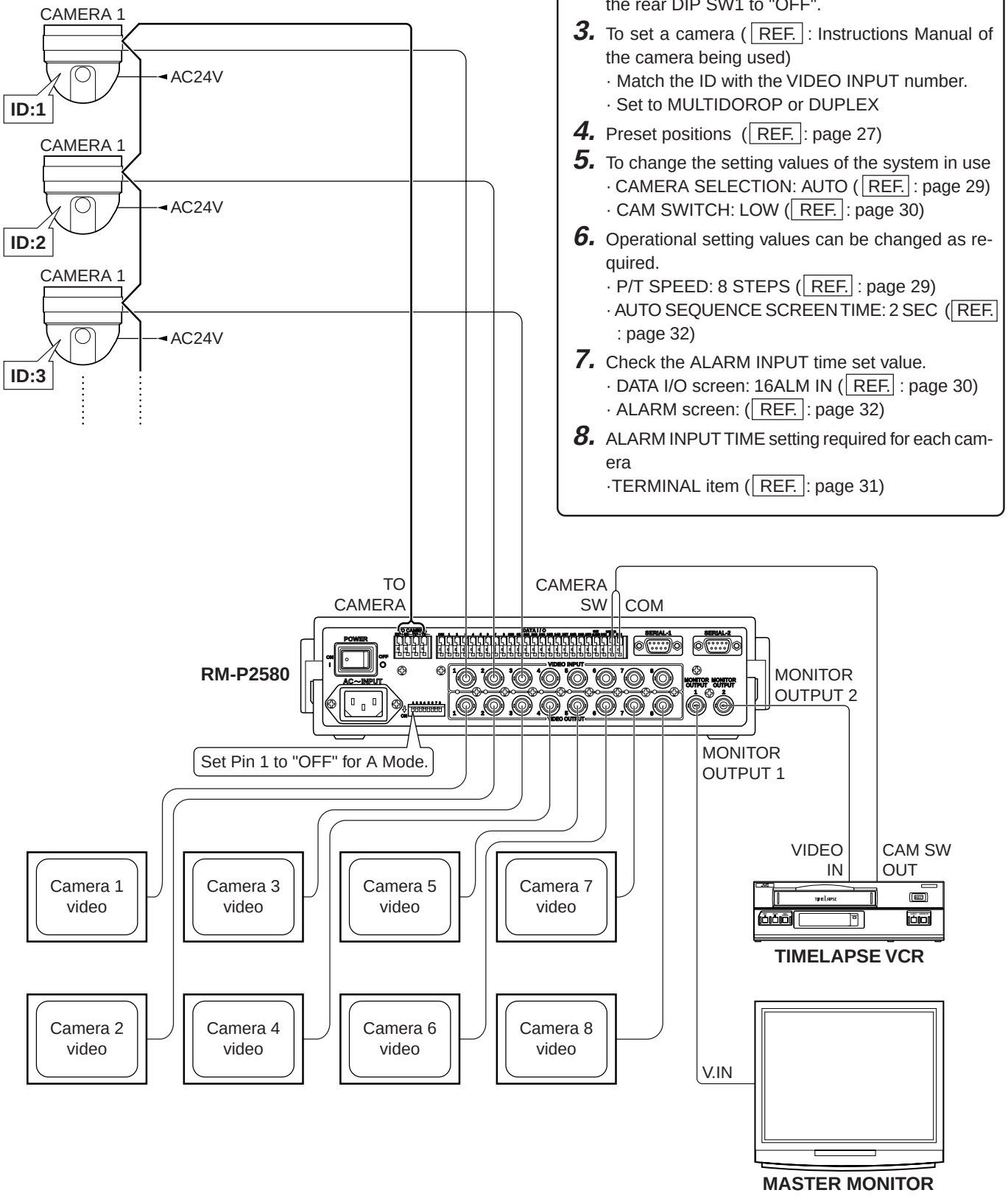
4. CONNECTIONS

BASIC SYSTEM (A MODE)

This system accepts video signals from the cameras via the VIDEO INPUT connectors.
Up to 8 cameras can be connected in this system.

Setting Procedure

1. Connect all the equipment.
   (All the cameras must be synchronized).
2. Set the system mode selection to A Mode, and set the rear DIP SW1 to "OFF".
3. To set a camera (REF. : Instructions Manual of the camera being used)
   · Match the ID with the VIDEO INPUT number.
   · Set to MULTIDOROP or DUPLEX
4. Preset positions (REF. : page 27)
5. To change the setting values of the system in use
   · CAMERA SELECTION: AUTO (REF. : page 29)
   · CAM SWITCH: LOW (REF. : page 30)
6. Operational setting values can be changed as required.
   · P/T SPEED: 8 STEPS (REF. : page 29)
   · AUTO SEQUENCE SCREEN TIME: 2 SEC (REF. : page 32)
7. Check the ALARM INPUT time set value.
   · DATA I/O screen: 16ALM IN (REF. : page 30)
   · ALARM screen: (REF. : page 32)
8. ALARM INPUT TIME setting required for each camera
   ·TERMINAL item (REF. : page 31)



A MODE

- The master monitor displays the video signal from the selected camera.
- Use the CAMERA SW input to switch the video signal and record it on the VCR.
- The preset operation, manual operation, AUTO PAN operation and AUTO PATROL operation are available for each camera.
- When fixed cameras are used, only the video signal can be switched.
- The alarm operation is available using the DATA I/O terminals.
- Alarms with up to 64 positions per camera can be handled via the SERIAL-1 connector.

In the A mode, in which the camera signals are input directly to the VIDEO INPUT connectors on the rear panel, the DATA I/O terminals outputs as shown in the following table :

Terminal Name	Condition	Signals
AUTO	—	The MAKE signal is output for between 500 ms and 1000 ms duration in the following cases. ● Power OFF → ON. ● AUTO SEQUENCE (AUTO button OFF → ON) ● When an AUTO SEQUENCE operation which has been interrupted by an alarm input resumes.
I/O 1 to 8 (I/O 9/ to 16/8)	When 8 SEL OUT is set • I/O 1 to 8 correspond to cameras 1 to 8.	The MAKE signal is output for between 500 ms and 1000 ms duration from the terminal corresponding to the camera number in the following cases. ● When AUTO SEQUENCE is turned OFF, the MAKE signal is output to the Camera No. terminal corresponding to the camera displayed on the camera indication. ● With AUTO SEQUENCE set to OFF, each time when the camera is selected, the MAKE signal is output to the Camera No. terminal corresponding to the camera selected. ● If an Alarm is input when AUTO SEQUENCE is activated, the MAKE signal is output to the Camera No. terminal corresponding to the camera to which the Alarm signal is input. ● If the PRIORITY item is set to ALARM, when there is an Alarm input while AUTO SEQUENCE is OFF, the MAKE signal is output to the Camera No. terminal corresponding to the camera to which the Alarm signal is input.
	When 8 ALM OUT is set • I/O 1 to 8 corresponds to cameras 1 to 8.	The MAKE signal is output for between 500 ms and 1000 ms duration in the following cases. ● The main signal is output at the terminal corresponding to the number of the camera which sent the alarm signal.
UNIT ALARM	—	The MAKE signal is output continuously throughout the alarm period.
CAMERA SW	—	The MONITOR OUTPUT 2 signal will be as follows, depending on the setting of the "CAM SWITCH". **OFF** : Same video signal as MONITOR OUTPUT 1, regardless of the CAMERA SW terminal. **LOW** : The camera's video signal is switched at the next VD after the falling signal from the time-lapse VCR is received. **HIGH** : The camera video is switched at the next VD after the raising signal from the time-lapse VCR is received.

APPLIED SYSTEM (B MODE)

<The compatible frame switchers are SW-D7000 and SW-D8000.>

This system accepts the connection of up to 16 cameras.
The video is recorded by means of a frame switcher.

When an alarm input is required to the SW-D7000/ SW-D8000, be sure to use the ALM OUTPUT of the I/O terminal of RM-P2580.

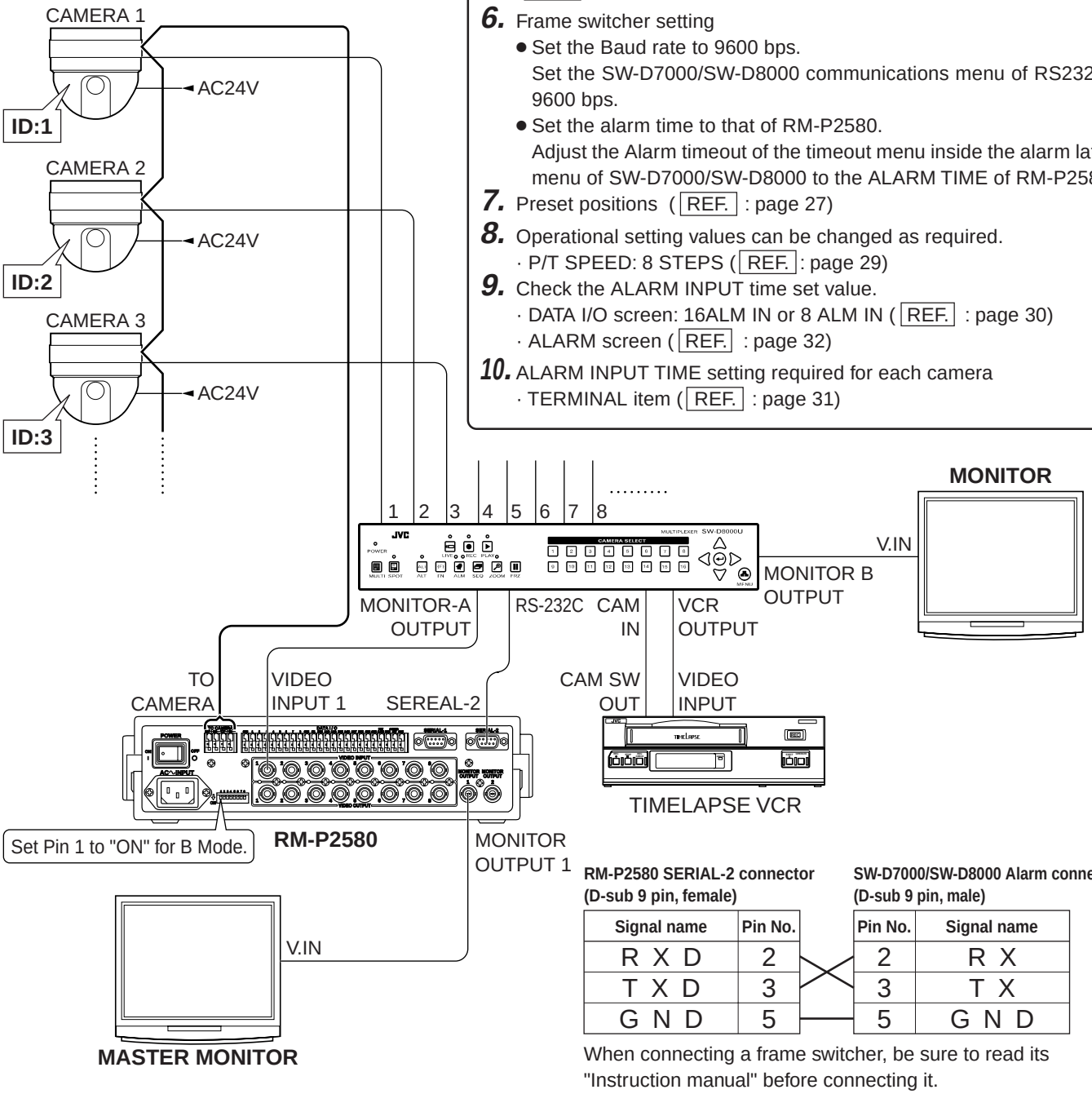
- Read the "Instruction Manual" for each piece of equipment to be connected before performing the connection.

NOTES

- When the +, -, Auto, F1~3 buttons are pressed quickly and consecutively, it may happen that the camera display does not correspond to the video output. If this is the case, press the buttons slowly and precisely.
- The AUTO LED of the RM-P2580 will not light up, even during AUTO SEQUENCE.

Setting Procedure

1. Connect all the equipment.
   (All of the cameras must be synchronized)
2. Set the system mode selection to B Mode, and set the rear DIP SW1 to "ON".
3. To set a camera (REF. : Instruction Manual of the camera being used)
   · Match the ID with the VIDEO INPUT number.
   · Set to MULTIDOROP and DUPLEX
4. Using the SERIAL-2 item, set to the frame switcher. (REF. : page 29)
5. Set the alarm to the PRIORITY mode for alarm signal input.
   Set the " PRIORITY" in the ALARM SCREEN to “ALARM”.
   (REF. : page 32)
6. Frame switcher setting
   - Set the Baud rate to 9600 bps.
     Set the SW-D7000/SW-D8000 communications menu of RS232 to 9600 bps.
   - Set the alarm time to that of RM-P2580.
     Adjust the Alarm timeout of the timeout menu inside the alarm latch menu of SW-D7000/SW-D8000 to the ALARM TIME of RM-P2580.
7. Preset positions (REF. : page 27)
8. Operational setting values can be changed as required.
   · P/T SPEED: 8 STEPS (REF. : page 29)
9. Check the ALARM INPUT time set value.
   · DATA I/O screen: 16ALM IN or 8 ALM IN (REF. : page 30)
   · ALARM screen (REF. : page 32)
10. ALARM INPUT TIME setting required for each camera
    · TERMINAL item (REF. : page 31)



RM-P2580 SERIAL-2 connector (D-sub 9 pin, female)

Signal name	Pin No.
R X D	2
T X D	3
G N D	5

SW-D7000/SW-D8000 Alarm connector (D-sub 9 pin, male)

Pin No.	Signal name
2	R X
3	T X
5	G N D

When connecting a frame switcher, be sure to read its "Instruction manual" before connecting it.

B MODE

- The monitor displays the video that is switched by the frame switcher.
- The master monitor displays either a multi-split screen or the menu screen.
- The cameras are selected by controlling the frame switcher through the SERIAL-2 connector.
- The preset operation, manual operation, AUTO PAN operation and AUTO PATROL operation are individually available for each camera.
- Alarm operation with up to 16 alarm inputs is available by using the DATA I/O terminals.
- Alarms with up to 64 positions per camera can be handled via the SERIAL-1 connector.

NOTES
- MANUAL operation of cameras and the menu operation are available even in the auto mode.
- As the frame switcher control signal is not output, the information in the CAMERA display does not change.

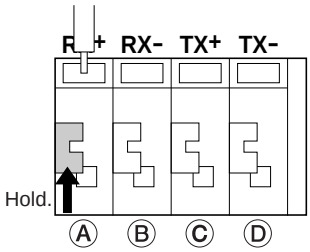
In B mode in which camera signals are switched by a frame switcher, the DATA I/O outputs are as shown in the following table :

Terminal Name	Condition	Signals
AUTO	—	The MAKE signal is output for between 500 ms and 1000 ms duration in the following cases. ● Power OFF → ON. ● AUTO SEQUENCE (AUTO button OFF → ON) When the SW-D7000/SW-D8000 is designated on the SERIAL-2 of the equipment connected, the MAKE signal can be output by pressing the AUTO button.
I/O 1 to 8	When 8 SEL OUT is set • I/O 1 to 8 correspond to cameras 1 to 8. When 16 SEL OUT is set • I/O 1 to 16 correspond to cameras 1 to 16.	The MAKE signal is output for between 500 ms and 1000 ms duration in the following cases. ● When the AUTO button is turned OFF from ON status, the MAKE signal is output to the Camera No. terminal corresponding to the camera which outputs the signal to MONITOR OUTPUT. ● Each time when the camera is selected while the AUTO button is OFF, the MAKE signal is output to the Camera No. terminal corresponding to the camera selected. ● With the PRIORITY item set to ALARM, when there is an Alarm input while the AUTO button is OFF, the MAKE signal is output to the Camera No. terminal corresponding to the camera to which the Alarm signal is input.
	8ALM OUT • I/O 1 to 8 correspond to cameras 1 to 8. 16ALM OUT • I/O 1 to 16 correspond to cameras 1 to 16.	The main signal is output at the terminal corresponding to the number of the camera which sent the alarm signal.
UNIT ALARM	—	The MAKE signal is output continuously throughout the alarm period.
CAMERA SW	—	The “CAM SWITCH” is permanently OFF. The MONITOR OUTPUT 2 connector always outputs the same video as the MONITOR OUTPUT 1 connector.

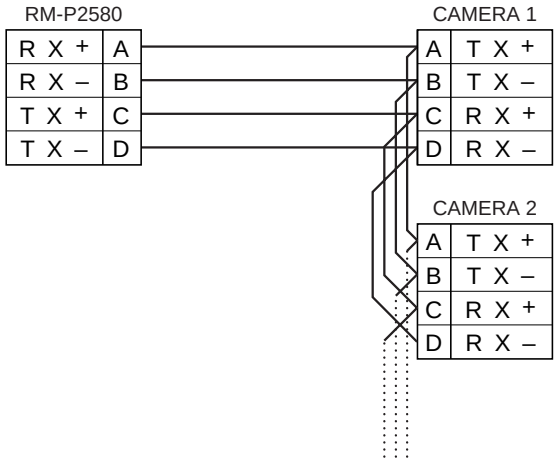
REAR PANEL CONNECTORS

TO CAMERA

Connection to control the camera. (The RM-P2580 is compatible with a TK-C675B camera.)
Communication is carried out by MULTIDROP FULL DUPLEX (RS-485, FULL DUPLEX).

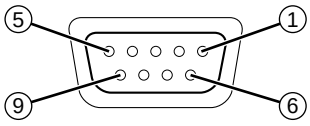


Attach or remove each cable by pushing down and holding each terminal connector, as shown above.



SERIAL-1, -2

Connect a frame switcher, etc.
(D-sub 9-pin, male connectors)



The electrical standards applied to the SERIAL-1 and SERIAL-2 connectors can be switched between RS-232C and RS-422A using pins 7 and 8 of the rear panel DIP switch.

DIP SW	Set Connector	OFF	ON
7	SERIAL-1	RS-232C	RS-422A
8	SERIAL-2	RS-232C	RS-422A

Signals when the RS-232C is set

Pin No.	Signal Name	
1	NC	
2	RXD (Data input)	
3	TXD (Data output)	
4	DTR (Control output)	Internally connected.
5	GND	
6	DSR (Control input)	
7	RTS (Control input)	Internally connected via a driver.
8	CTS (Control output)	
9	NC	

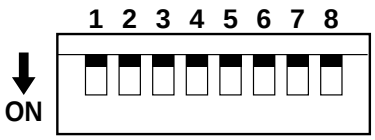
Signals when the RS-422A/485 is set

Pin No.	Signal Name	
1	NC	
2	RXD- (Data input)	
3	TXD- (Data output)	
4	NC	Internally connected.
5	GND	
6	NC	
7	TXD+ (Data output)	
8	RXD+ (Data input)	
9	NC	

Note
Communication speed is 9600 bps.

DIP Switch

Set the mode and select the electrical standard for the SERIAL connector.



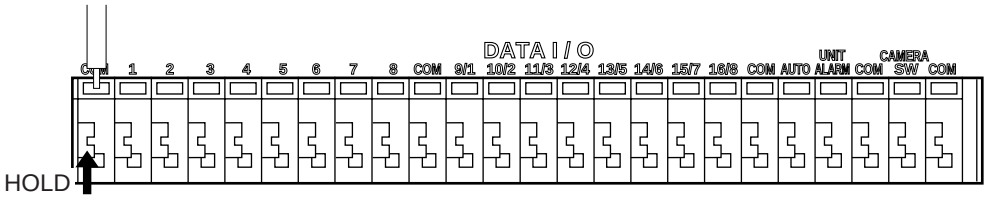
Pin No.	Description	OFF	ON
1	System mode selection	A mode	B mode
2 | 6	Cannot be used. (Ensure that they are set to OFF.)		
7	SERIAL-1 electrical standard selection	RS-232C	RS-422A
8	SERIAL-2 electrical standard selection	RS-232C	RS-422A

(Default: All OFF)

REAR PANEL CONNECTORS (Continued)

DATA I/O

REF. : "DATA I/O SCREEN" on page 30 for the input/output signal switching.



■ **ALARM INPUTS 1 to 16**

TTL level (Make/Break), input duration 70 ms or more.

REF. : "CONTROL UNIT SCREEN" on page 28 and "POLARITY item of DATA I/O SCREEN (INPUT ASSIGNMENT SCREEN)" on page 31 for the Make/Break switching.

■ **ALARM/SELECT OUTPUTS 1 to 16**

Alarm or selection output.
Open-collector output of a LOW pulse for between 500 ms and 1000 ms.
Max. voltage 30 V, current 30 mA.

■ **UNIT ALARM**

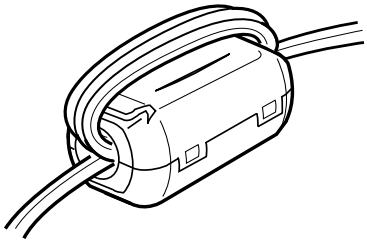
Open-collector, LOW output during the alarm time period.
Maximum voltage, 30 V, current 30 mA.

■ **CAM SW**

- Connect to the CAM SW OUT (camera switching signal output) terminal of the time-lapse VCR. Time-lapse recording is not available if this connection is not made.
- Set "polarity" according to the VCR to be used. When using a JVC time-lapse VCR, set to "LOW".

REF. : "CONTROL UNIT SCREEN" on page 28 and "CAM SWITCH item of DATA I/O SCREEN" on page 30.

Installing the Ferrite Core



Install a ferrite core on cables connected to the DATA I/O terminals and to the TO CAMERA terminals as shown in the diagram on the left. Keep the ferrite core as close as possible to the remote control unit.

5. MENU SCREEN SETUPS

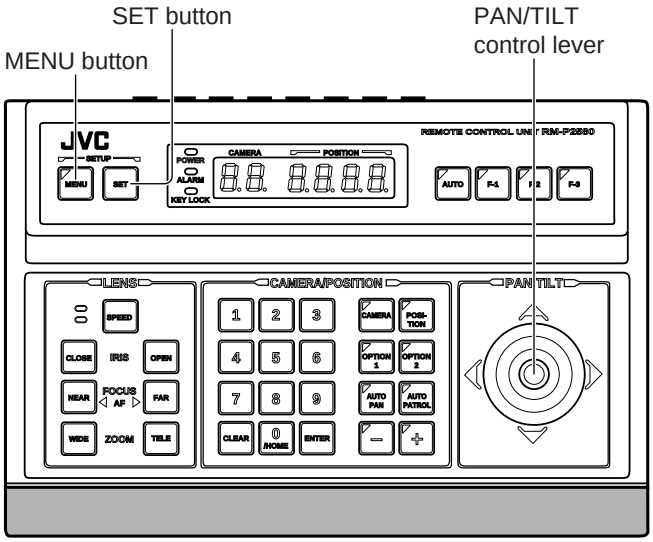
FLOW OF MENUS

For details of each screen, please refer to the reference pages 26 to 28.

SET UP screen

- POSITION SETUP
  - POSITION SETUP screen (REF. : Page 27)
- CAMERA
  - CAMERA screen (REF. : Page 28)
- CONTROL UNIT screen (REF. : Page 28)
  - OPTION screen (REF. : Page 29)
    - MAX CAMERA (Displayed at B Mode only)
    - P/T SPEED
    - SERIAL-2 (Displayed at B Mode only)
    - CAMERA SELECTION (Displayed at A Mode only)
      - CAMERA SELECTION screen (REF. : Page 29)
    - FACTORY SETTING
      - FACTORY SETTING screen (REF. : Page 29)
  - DATA I/O screen (REF. : Page 30)
    - CAM SWITCH (Displayed at A Mode only)
    - I/O
    - INPUT ASSIGNMENT
      - INPUT ASSIGNMENT screen (REF. : Page 31)
        - TERMINAL
        - CAMERA
        - POSITION
        - ALARM TEXT
        - POLARITY
  - ALARM screen (REF. : Page 32)
    - PRIORITY
    - ALARM TIME
    - BUZZER TIME
  - AUTO SEQUENCE screen (REF. : Page 32)
    (Displayed at A Mode only)

MENU OPERATION



1. Set the POWER switch on the rear panel to “ON”.

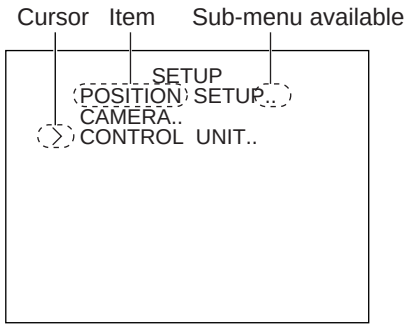
2. Press and hold the MENU button for about 3 seconds. The LED indicator lights up and the MONITOR OUTPUT 1 connector on the rear panel outputs the SETUP screen signal.

3. Select a menu item by moving the cursor (>) using the PAN/TILT control lever.
- Tilt the lever upwards (▲) to move the cursor upwards.
- Tilt the lever downwards (▼) to move the cursor downwards.

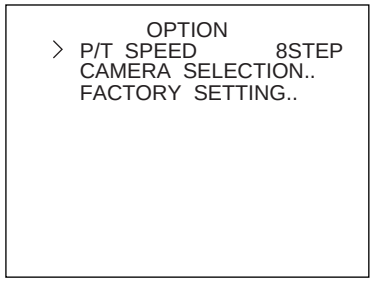
4. Press the SET button to display the sub-menu of the menu item selected.

NOTE

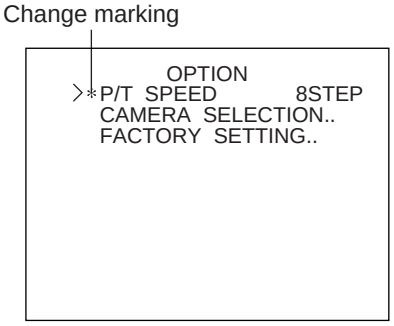
The items which have “..” at the end have the sub-menus under them.



SETUP screen (Main menu)



Example of sub-menu screen (Displayed at A Mode Only)



Example of sub-menu screen after change (Displayed at A Mode Only)

5. As in step ***3***, select the desired item in the sub-menu.

6. Change the value of the selected item using the PAN/TILT control lever.
- Tilt the lever towards the left (◀) to decrease the value.
- Tilt the lever toward the right (▶) to increase the value. When the value of an item is changed, the marking (✻) appears as shown on the left.

NOTE

For details off the sub-menu setting procedure, see subsequent pages.

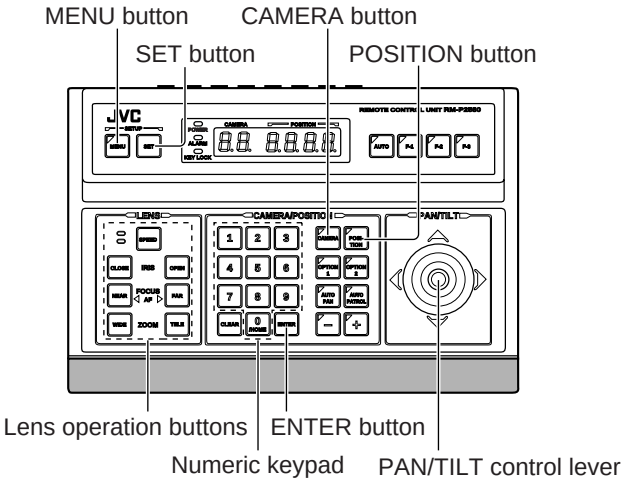
7. After changing the items as required, press te MENU button to return to the normal video display screen.

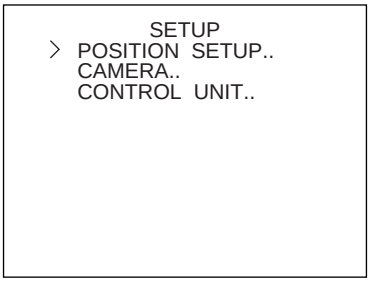
NOTES : While the menu screen is being displayed :
- The functions of AUTO SEQUENCE, AUTO PAN and AUTO PAN cease to operate.
- The alarm functions are disabled.
- The CAMERA SW is disabled.
- Remaining in operation are camera select, preset (home) position select, data output and manual control.

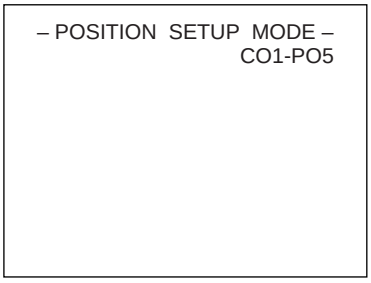
POSITION SETUP SCREEN

This screen is used to preset, correct or delete the camera positions.
No position can be selected unless it has been preset.
Up to 64 positions including the home position can be preset.

Presetting and Correcting Camera Positions







1. Press and hold the MENU button for about 3 seconds to display the SETUP screen.

2. Select POSITION SETUP and press the SET button.
"– POSITION SETUP MODE –" with the currently selected Camera No. and the Position No. are displayed. ("C01 - P05" shows the Camera 1, Position 5.)

3. Select a camera number.
CAMERA button → Numeric keys → ENTER button

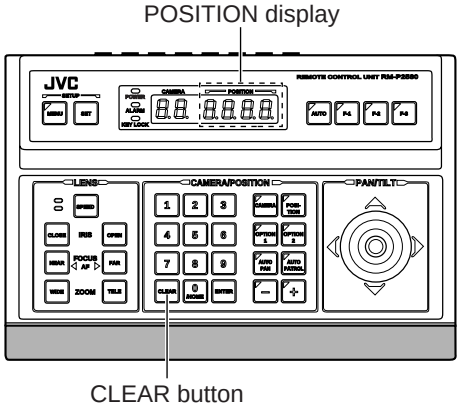
4. Select the position number to be preset.
POSITION button → Numeric keys → ENTER button
In this case, the camera screen shifts to the pre-registered POSITION.

5. Set the image angle.
Set it using the PAN/TILT control lever and the IRIS, ZOOM and FOCUS control buttons.

6. Press the SET button for about 1 second.
A short beep indicates that the position has been memorised.
"Invalid operation" is displayed when using the camera which the position can not be preset, such as fixed camera.

7. To preset other positions, repeat steps ***4*** to ***6***.
64 positions including the home position can be preset.

Clearing a Camera Position



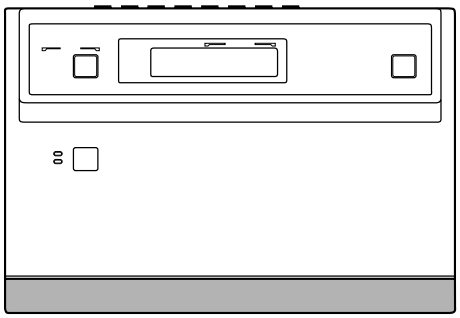
Select the camera ID number and the position number in the same way as presetting or correcting a position.
(Steps ***1*** to ***4*** of "Presetting and Correcting Camera Positions")

1. Press and hold the CLEAR button for about 1 second.
A short beep is generated and the position is cleared.

NOTE:
Home position is not clearable.

CAMERA SCREEN

To set up the connected cameras, please refer to the instruction manuals of the individual cameras.
Use the following procedure to display the menu.



1. Press and hold the MENU button for about 3 seconds to display the SETUP screen.

2. Select CAMERA and press the SET button.
The menu screen for the connected cameras is displayed.

CONTROL UNIT SCREEN

This screen is used to set the functions of the remote control unit.

1. Press and hold the MENU button for about 3 seconds to display the SETUP screen.

2. Select CONTROL UNIT and press the SET button.
The CONTROL UNIT screen is displayed.

3. Select an item in the CONTROL UNIT screen using the PAN/TILT control lever.
Pressing the SET button displays a sub-menu at a lower hierarchical level.
Pressing the MENU button displays a menu at a higher hierarchical level.

Sub-menu details

OPTION : Used for settings related to the remote control system.
REF. : Page 29.

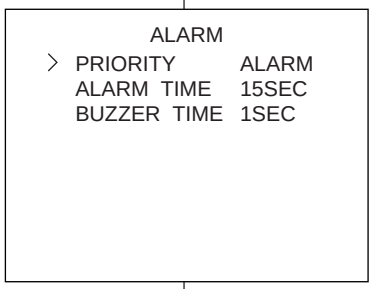
DATA I/O : Used for settings related to the DATA I/O terminals on the rear panel.
REF. : Page 30.

ALARM : Used for settings related to the ALARM.
REF. : Page 32.

AUTO SEQUENCE : Used for settings related to the AUTO SEQUENCE operation which is activated by pressing the AUTO button.
REF. : Page 32.

ALARM SCREEN

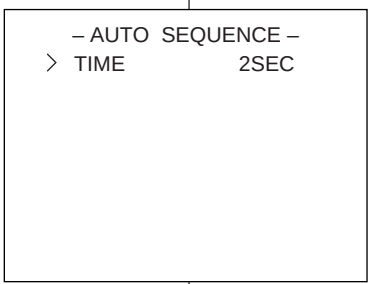
Item	Function	Options	Default
PRIORITY	Sets whether an alarm input is accepted during manual operation. **ALARM** : Alarm input is accepted even during manual operation. **MANUAL** : Alarm input is not accepted during manual operation.	ALARM, MANUAL	ALARM
ALARM TIME	Sets how long the alarm operation will continue after an alarm input.	5, 6, 7, 8, 9, 10, 15, 20, 25, 30, 60, SERIES	15 SEC
BUZZER TIME	Sets the buzzer sound generated upon an alarm input. **1 SEC to 5 SEC** : The buzzer sounds for 1 to 5 seconds. **SERIES** : The buzzer sound continues throughout the alarm operation. **NONE** : The buzzer remains silent.	1, 2, 3, 4, 5 SEC, SERIES, NONE	1 SEC



AUTO SEQUENCE SCREEN

● This setting is possible only in the A mode.

Item	Function	Options	Default
TIME	Sets the camera switching time period during the AUTO SEQUENCE operation.	1 to 10 SEC, 15 SEC, 20 SEC, 30 SEC, 60 SEC	2 SEC



6. OTHER

TROUBLESHOOTING

Symptom	Check	Ref. Page
Video is not displayed.	• Is the power supply connected properly to all off the cameras? • Are the cameras connected properly to the VIDEO INPUT connectors?	Pages 21, 22
The cameras cannot be initialized.	• Are the camera heads compatible with this unit?	—
The cameras point in arbitrary directions after initialization.	• Preset their home positions.	Page 27
None of the remote control function operate.	• Are the cameras connected properly to the TO CAMERA connectors? • Are the DIP switches on the cameras set properly? (REF. : Instruction manuals of the cameras in use.) • Is the unit in the KEY LOCK status?	Pages 21, 22 Page 15
The PAN/TILT or lens controls cannot be operated manually.	• Are the cameras connected properly to the TO CAMERA connectors? • Are the DIP switches of the cameras set properly? (REF. : Instruction manuals of the cameras in use.) • Is the unit in the KEY LOCK status?	Pages 21, 22 Page 15
The video signal from a camera does not appear when the camera is selected.	• Are the camera IDs set to match correctly the VIDEO INPUT connector numbers? • Is MAX CAMERA set to match the number of connected cameras? • Is CAMERA SELECTION set to a position other than DISABLE?	Page 29 Page 29
The camera does not move to the position selected.	• Have positions been preset?	Page 27
The speed of camera movement when using the PAN/TILT control is too slow.	• Is P/T SPEED set as required?	Page 29
Alarm operation does not occur when an alarm signal is input.	• Is the terminal (one of the DATA I/O terminals) where the alarm signal is input properly set and connected?	Item “I/O” on page 30.
The alarm text is not displayed and/or buzzer does not sound when an alarm signal is input.	• Are items ALARM TEXT and BUZZER TIME set to NONE?	Page 31 Page 32

If the problem still cannot be solved after following the above checks, please consult your nearest authorised JVC service agent.

SPECIFICATIONS

Applicable cameras	: TK-C675B
Max. number of connected cameras	: 8 (A mode), 16(B mode)
Max. cable length	: 1.2 km
Control terminals	: Push terminals (RS-485) 9600 bps.
Max. number of DATA I/O terminals	: 16
Max. number of alarm inputs/outputs	: 16
Number of UNIT ALARM outputs	: 1 line (open-collector)
Number of AUTO outputs	: 1 line (open-collector)
Number of CAM SW circuits	: 1
SERIAL-1 communication port	: RS-232C or RS-422A, 9600bps, D-sub connector (9-pin)
SERIAL-2 communication port	: RS-232C or RS-422A, 9600bps, D-sub connector (9-pin)

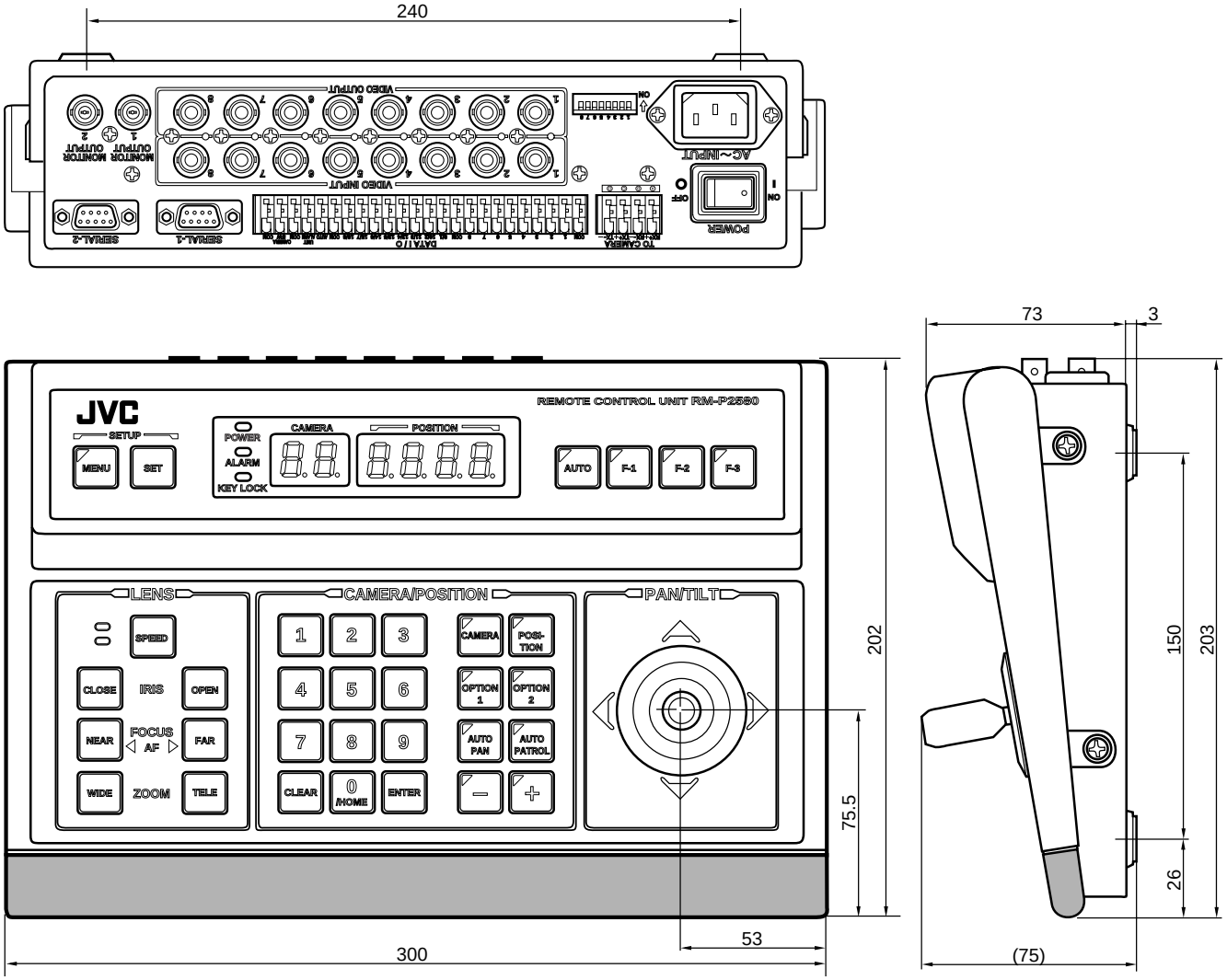
Video lines

Number of inputs	: 8 (BNC)
Level	: Composite, 1 V(p-p)
Number of outputs	: 2 (BNC)

Other

Supply voltage	: AC100–120V
Power consumption	: Approx. 3 W
Ambient temperatures	: (Operating) -10 to 50˚C (Recommended) 0 to 40˚C
Mass	: Approx. 1.5 k g

■ **External Dimensions (Unit: mm)**



• Design and specifications are subject to change without notice.

RM-P2580 REMOTE CONTROL UNIT

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